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1. Method for wirelessly transmitting data according to an FSK method,
comprising the following steps:
- 5 - receiving (1, 3) data,
- measuring (6) the error rate of the received data,
- evaluating (6) the error rate and the field intensity,
- adjusting (5, 6, 10) the frequency swing of the FSK method, which is utilized for
wirelessly transmitting (15) data dependent on the evaluation (12) of the error rate and
10 the field intensity in order to optimize (13) the transmission behavior.
2. Method according to claim 1,
characterized in that
the frequency swing is modified within a preadjusted range.
- 15 3. Method according to one of the previous claims,
characterized in that
the transmission behavior is optimized on the basis of a table (12) reproducing the
obtainable range of the transmission (15) dependent on the adjusted frequency swing.
- 20 4. Method according to claim 3,
characterized in that
the frequency swing is optimized (13) toward a maximal range on the basis of the
table (12) when the evaluation (6) result is a low frequency intensity and a low
25 frequency rate at the same time.
5. Method according to one of the previous claims,
characterized in that

the transmission behavior is optimized on the basis of a second table (14) reproducing the obtainable interference immunity of the transmission (15) dependent on the adjusted frequency swing.

- 5 6. Method according to claim 5,
characterized in that
the frequency swing is optimized (13) toward a maximal interference immunity on the
basis of the second table (14) when the evaluation (6) result is a high field intensity
and a high error rate at the same time.

- 10 7. Method according to one of the previous claims,
characterized in that
the transmission (15) ensues according to the DECT standard.

- 15 8. Method according to one of the previous claims,
characterized in that
the optimal frequency swing is selected lower for a maximal range than the frequency
swing for a maximal interference immunity.

- 20 9. Device for wirelessly transmitting data according to an FSK method,
comprising:
- a receiver (3),
- a measuring device (6) for the error rate of received data,
- a second measuring device (3) for the field intensity (8) during the reception of the
25 data,
- an evaluation unit (6) for the measured error rate and the measured field intensity,
- a control unit (13) for adjusting the frequency swing of the FSK method, which is
utilized for wirelessly transmitting (15) data by a transmitter (5) dependent on the

measured error rate and the measured field intensity in order to optimize the transmission behavior.

10. Device according to claim 9,
5 characterized in that
the frequency swing can be modified within a preadjusted range.

11. Device according to one of the claims 9 or 10,
characterized in that
10 the evaluation unit (6) contains a table (12) reproducing the obtainable range of the
transmission (15) dependent on the adjusted frequency swing for purposes of
optimizing the transmission behavior.

12. Device according to claim 11,
15 characterized in that
the frequency swing is optimized (13) toward a maximal range on the basis of the
table (12) when the evaluation unit (6) detects a low field intensity and a low error
rate at the same time.

13. Device according to one of the claims 9 through 12,
20 characterized in that
the evaluation unit (6) contains a second table (14) reproducing the obtainable
interference immunity of the transmission (15) dependent on the adjusted frequency
swing for purposes of optimizing the transmission behavior.

14. Device according to claim 13,
25 characterized in that

the frequency swing is optimized (13) toward a maximal interference immunity on the basis of the secon [sic] table (14) when the evaluation unit (6) detects a high field intensity and a high error rate at the same time.

- 5 15. Device according to one of the claims 9 through 14,
characterized in that
the optimal frequency swing is selected lower for a maximal range than the frequency
swing for a maximal interference immunity.
- 10 16. Device according to one of the claims 9 through 15,
characterized in that
it is designed for a transmission (15) according to the DECT standard.

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